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Imperial units to Metric (SI) units

Quantity	*Imperial unit*	*SI equivalent*	
		Accurate	*Rough approximation*
Length	inch	0·0254 m	4 in = 10 cm
	foot	0·3048 m	10 ft = 3 m
	yard	0·9144 m	10 yds = 9 m
	mile	1·6093 km	10 miles = 16 km
Area	sq. inch	645·16 mm^2 (sq. millimetres)	1 sq. in = 650 mm^2
	sq. foot	0·0929 m^2	100 sq. ft = 9·3 m^2
	sq. yard	0·836 m^2	100 sq. yd = 84 m^2
	sq. mile	2·58999 km^2	10 sq. miles = 26 km^2
	acre	0·405 ha (hectare)	10 acres = 4 ha
		4050 m^2	1 acre = 4000 m^2
Volume	cu. inch	$1·6387 \times 10^{-5}$ m^3	1 cu. in = 16 cm^3
	cu. foot	0·0283 m^3	1 cu.ft = 28 litres
			1000 cu.ft = 28 m^3
	UK gallon	0·004546 m^3	1 UK gal = 4·5 litres
			1000 UK gal = 4·5 m^3
Mass	ounce	0·0284 kg	1 oz = 28 gm
	pound	0·4536 kg	10 lb = 4·5 kg
Pressure	pound per sq. inch	6894·8 N/m^2 (newtons per sq. metre)	1 lb/sq.in = 7000 N/m^2
			10 lb/sq.in = 7 N/cm^2
Density	pound per cu. foot	16·019 kg/m^3	1 lb/cu.ft = 16 kg/m^3
Temperature	degree Fahrenheit (°F)	0·555 degree Celsius (°C)	
Temperature scale	t°F	= 5/9(t−32)°C	
		(e.g. 70°F = 21·1°C	
		80°F = 26·7°C	
		90°F = 32·2°C)	

SI units to Imperial units

Quantity	*SI unit*	*Imperial equivalent*	
		Accurate	*Rough approximation*
Length	centimetre (cm)	0·394 in	10 cm = 4 in
	metre (m)	3·281 ft	10 m = 33 ft
		1·094 yds	
	kilometre (km)	0·621 miles	100 km = 62 miles
Area	square metre (m^2)	10·764 sq.ft	10 m^2 = 12 sq.yds
	hectare (10000 m^2)	2·471 acres	1 ha = 2·5 acres
			= 12000 sq.yds
	square kilometre (km^2)	0·386 sq.miles	100 km^2 = 40 sq.miles
Volume	cu. metre (m^3)	35·315 cu.ft	1 m^3 = 35 cu.ft
			1 m^3 = 1·3 cu.yds
	litre (l)	0·22 UK gal	100 litres = 3·5 cu.ft
	(1000 litres = 1 m^3)		= 22 UK gal
Mass	kilogramme (kg)	2·205 lb	10 kg = 22 lb
	gramme (g)	0·035 oz	100 g = 3·5 oz
Pressure	newtons per sq. metre (N/m^2)	$1·4504 \times 10^4$ lb/sq.in	1 N/m^2 = $1·5 \times 10^4$ lb/in^2 or
			1 N/cm^2 = 1·5 lb/sq.in
Density	kilogramme per cu. metre (kg/m^3)	0·062 lb/cu.ft	100 kg/m^3 = 6 lb/cu.ft
	gramme per cu.cm (g/cm^3)	0·036 lb/cu.in	30 g/cm^3 = 1 lb/cu.in
Temperature	degree Celsius (°C)	1·8° Fahrenheit (°F)	
Temperature scale	t°C	= 9/5(t+32)°F	
		(e.g. 20°C = 68°F	
		30°C = 86°F	
		40°C = 104°F)	

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